

Name _____ Period _____

Classifying Matter

A. Determine whether each of the following is an example of an element, a compound, or a mixture.

1. Carbon (C) _____
2. Water (H₂O) _____
3. Salt Water (NaCl & H₂O) _____
4. Hydrochloric acid (HCl) _____
5. Air (N₂ & O₂ & CO₂ & Ar & H₂O) _____
6. Sucrose (C₁₂H₂₂O₁₁) _____
7. Iron (Fe) _____
8. Helium (He) _____

B. Classify each mixture as homogeneous or heterogeneous:

9. Tossed salad _____
10. Kool-Aid _____
11. Plain Jello _____
12. Jello with fruit _____
13. Hot tea _____
14. Chunky Rocky Road ice cream _____
15. Chocolate ice cream _____
16. Chicken noodle soup _____

C. Explain how you determined how to classify each type of matter by answering the questions below.

17. How did you distinguish an element from a compound and a compound from a mixture?
18. How did you distinguish a homogeneous mixture from a heterogeneous mixture?